| Index | of Claims |
|-------|-----------|
|       |           |

| Application No. | Applicant(s)    |  |
|-----------------|-----------------|--|
| 10/729,509      | CHITWOOD ET AL. |  |
| Examiner        | Art Unit        |  |
| Thomas A Beach  | 3671            |  |

| , | Rejected | - | (Through numeral)<br>Cancelled |
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|   | Interference | 0 |

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| Cla         | ,im      | _        |    |          | _        | Dat          |                    |                                     |                    |          | 1   |  | aim      |           |   |  |                                     | Date           |                                     |              |              | _ |
|-------------|----------|----------|----|----------|----------|--------------|--------------------|-------------------------------------|--------------------|----------|-----|--|----------|-----------|---|--|-------------------------------------|----------------|-------------------------------------|--------------|--------------|---|
| 016         | 11111    | Н        | _  | _        | ι-'      | Date         |                    | Γ-                                  | Τ                  | 1        | 1   | C!   | 31513    | $\vdash$  |   |  | <del>-</del>                        | Jan            |                                     | Τ-           | _            | Т |
| Final       | Original | 12/10/04 |    |          |          |              |                    |                                     |                    |          |     | Final  | Original |           |   |  |                                     |                | :                                   |              |              |   |
|             | 1        | べ        |    |          |          |              |                    |                                     |                    |          | ]   |  | 51       |           |   |  |                                     |                |                                     |              |              | Ι |
|             | 2        | 7        |    |          |          |              |                    |                                     |                    |          | ]   |  | 52       |           |   |  |                                     |                |                                     |              |              | I |
|             | 3        | 4        |    |          |          |              |                    |                                     |                    |          | ]   |  | 53       | Ш         |   |  | L                                   |                | L                                   | L            | _            | l |
| <u></u>     | 4        | 2        |    | L_       |          | L            |                    |                                     |                    |          |     |  | 54       |           |   |  | <u> </u>                            |                | L                                   |              | _            | ļ |
| <u></u>     | 5        | =        |    |          |          | _            |                    |                                     | <u></u>            | <u> </u> | Į   |  | 55       | Щ         |   | $ldsymbol{ld}}}}}}$ | L                                   | <u> </u>       | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |              |              | ļ |
|             | 6        | =        |    | <u> </u> | _        | _            | <u> </u>           |                                     | _                  | _        | Į   |  | 56       | Щ         |   |  | <u> </u>                            |                | L                                   | L_           | _            | ļ |
|             | 7        | Ш        |    | _        | _        | <u> </u>     |                    | <u> </u>                            | L_                 | L        |     |  | 57       | Ш         |   |  | <u> </u>                            | _              | L                                   | <u> </u>     | _            | ļ |
| <u></u>     | 8        | Щ        | L. | <u> </u> | _        | _            | _                  | <u> </u>                            | _                  | _        | Į   | ļ  | 58       |           |   |  | ╙                                   | Ļ              | _                                   | _            | <u> </u>     | ļ |
| <u></u>     | 9        |          |    | _        | ļ.,      | L.           |                    | <u> </u>                            |                    |          | Į   |  | 59       |           |   |  | <u> </u>                            | _              | L                                   | _            |              | ļ |
| <u> </u>    | 10       |          |    |          | _        | <u> </u>     | _                  | _                                   | _                  |          |     | ļ  | 60       | $\square$ |   |  | <u> </u>                            |                |                                     | ļ            | _            | ļ |
| <u> </u>    | 11       | Ш        |    | ļ        | <u> </u> | <u> </u>     | _                  | <u> </u>                            | ├_                 | <u> </u> | -   | <u> </u>   | 61       | Н         |   | _  | ┡                                   | ⊢              | ⊢                                   |              | ⊢            | ļ |
| <u> </u>    | 12       | Н        | _  | <u> </u> | _        | ├-           | <u> </u>           | <u> </u>                            | ├                  | <u> </u> | ł   |  | 62       | Н         |   |  | L                                   | ⊢              | ⊢                                   | <u> </u>     | ⊢            | ł |
| <u> </u>    | 13       | $\vdash$ |    | _        | -        | -            |                    | _                                   | <u> </u>           |          | ł   | <u> </u>   | 63       | $\vdash$  |   |  |                                     | <u> </u>       |                                     | ⊢            | ⊢            | ł |
| <u> </u>    | 14       | Н        | _  |          | ├        | ⊢            | -                  | ⊢                                   | -                  | ⊢        |     |  | 64       | $\vdash$  |   |  | ⊢                                   | $\vdash$       | $\vdash$                            | ⊢            | $\vdash$     | ╀ |
|             | 15<br>16 | $\vdash$ | _  | ┝        | ⊢        | ⊢            | -                  | ⊢                                   | ⊢                  | ├        | ł   |  | 65<br>66 | -         | _ | _  | ├                                   | -              | -                                   | ⊢            | -            | ł |
| <u> </u>    | 17       | Н        |    | ┝        | ⊢        | ⊢            | ┝                  | ⊢                                   | ⊢                  | ⊢        | ł   | <u> </u>   | 67       | $\vdash$  | _ | _  | -                                   | ⊢              | ├                                   | -            | ⊢            | ł |
| $\vdash$    | 18       | Н        |    | <u> </u> | H        |              | ┢                  | H                                   | ┢                  |          | ł   | -  | 68       | Н         |   |  | -                                   | ┢              | ⊢                                   | ⊢            | ⊢            | ł |
| $\vdash$    | 19       | Н        |    | -        | ├        | -            | ⊢                  |                                     | -                  |          |     |  | 69       | Н         |   |  |                                     | ├              |                                     | -            | ┢            | ł |
| -           | 20       | Н        | _  | _        | ├        | ⊢            | -                  | ├                                   | ⊢                  | -        | ł   |  | 70       |           |   | _  | -                                   | ┝              | -                                   | -            | -            | ł |
|             | 21       | Н        |    | _        | ⊢        | H            | -                  | -                                   | -                  |          | ł   | <u> </u>   | 71       | $\vdash$  |   | -  |                                     |                | -                                   |              | $\vdash$     | ł |
|             | 22       | Н        |    | _        | $\vdash$ |              |                    | _                                   | -                  |          | ł   | <del>                                     </del> | 72       | Н         |   |  | -                                   | ├              | ┝                                   |              | -            | ł |
| $\vdash$    | 23       | H        |    | $\vdash$ |          |              |                    | <del> </del>                        | -                  |          | ł   | -  | 73       | H         |   |  |                                     | $\vdash$       | -                                   |              | -            | ł |
|             | 24       | Н        |    |          |          |              | -                  | -                                   | -                  | -        | ł   |  | 74       |           | _ | $\vdash$   | $\vdash$                            | ⊢              | -                                   | _            | _            | t |
|             | 25       | Н        |    |          |          | -            |                    |                                     |                    |          | ł   |  | 75       |           | _ | $\vdash$   |                                     | ┢              | ┢                                   |              | -            | t |
|             | 26       | Н        |    |          | $\vdash$ | 1            |                    |                                     |                    |          | ł   | -  | 76       | H         |   | _  | -                                   | <del>  -</del> |                                     | -            | Η-           | ł |
|             | 27       |          |    | _        | ╁        | $\vdash$     |                    | $\vdash$                            | $\vdash$           | _        | ĺ   |  | 77       | $\vdash$  |   |  | $\vdash$                            | $\vdash$       | $\vdash$                            | $\vdash$     | $\vdash$     | t |
|             | 28       | Н        |    | $\vdash$ | $\vdash$ | $\vdash$     | -                  | 1                                   | 一                  | _        | ĺ   |  | 78       | H         |   | _  | $\vdash$                            | $\vdash$       | $\vdash$                            |              | $\vdash$     | t |
| <del></del> | 29       | П        | -  |          | $\vdash$ | 1            | -                  | 1                                   | $\vdash$           | 1        | ĺ   |  | 79       | Н         |   |  |                                     | H              | m                                   |              | Т            | t |
|             | 30       | П        |    |          |          | 1            |                    | $\vdash$                            | ┢                  |          | 1   |  | 80       | Н         |   |  |                                     | ┪              | T                                   |              |              | t |
|             | 31       |          |    |          | 1        |              | $\vdash$           | T                                   | 1                  |          | 1   |  | 81       | П         |   |  |                                     | Г              |                                     |              |              | t |
|             | 32       |          |    |          |          |              |                    | T                                   | Т                  |          | 1   |  | 82       | П         |   |  |                                     |                |                                     |              |              | t |
|             | 33       | П        |    |          |          | Т            |                    |                                     | Г                  |          | 1   |  | 83       | П         |   |  |                                     |                |                                     |              |              | t |
|             | 34       | П        |    |          |          |              |                    | Г                                   |                    | $\vdash$ | 1   |  | 84       | П         | _ |  |                                     |                | -                                   |              |              | t |
|             | 35       | П        |    |          | Г        |              |                    |                                     |                    |          | 1   |  | 85       |           |   |  |                                     |                |                                     |              |              | Ī |
|             | 36       | П        |    |          |          |              |                    |                                     |                    |          | 1   |  | 86       | П         |   |  |                                     |                |                                     |              |              | Ī |
|             | 37       | П        |    |          |          |              |                    |                                     |                    |          | ] ; |  | 87       | П         |   |  |                                     |                |                                     |              |              | Ī |
|             | 38       |          |    |          |          |              |                    |                                     |                    |          | ] : |  | 88       |           |   |  |                                     |                |                                     |              |              | Γ |
|             | 39       |          |    |          |          |              |                    |                                     |                    |          |     |  | 89       |           |   |  |                                     |                |                                     |              |              | I |
|             | 40       |          |    |          |          |              |                    |                                     |                    |          | ]   |  | 90       |           |   |  |                                     |                |                                     |              |              |   |
|             | 41       |          |    |          |          |              |                    |                                     |                    |          |     |  | 91       |           |   |  |                                     |                |                                     |              |              |   |
| Щ           | 42       | Ш        |    |          |          |              |                    |                                     | $oxedsymbol{oxed}$ |          |     |  | 92       | Ш         |   |  | L                                   | <u> </u>       |                                     | <u>_</u>     | <u> </u>     | Į |
|             | 43       | Ш        |    |          | _        |              | $oxedsymbol{oxed}$ | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>           | _        | Į   |  | 93       | Ш         |   |  | L                                   | <u> </u>       | L                                   | L            | $oxed{\Box}$ | L |
|             | 44       | Ш        |    |          |          | $oxed{oxed}$ | $oxed{\Box}$       | Ш                                   | Ш                  |          | Į   |  | 94       | Ш         |   |  | L.                                  | L              | L                                   |              |              | L |
|             | 45       | Ш        |    |          | <u> </u> | L            | L                  | L                                   |                    |          |     |  | 95       | Ш         |   |  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $oxed{oxed}$   | <u> </u>                            | $oxed{oxed}$ |              | Ĺ |
| $\perp$     | 46       | L.I      |    |          | <u> </u> | <u> </u>     | <u> </u>           | <u> </u>                            |                    | L_       |     |  | 96       | $\sqcup$  |   |  | L                                   | L              | L.                                  | Щ            |              | L |
|             | 47       | $\sqcup$ |    |          | <u> </u> |              | L_                 | <u></u>                             | L.                 | L_       |     |  | 97       | $\sqcup$  |   |  | <u> </u>                            | L              | <u> </u>                            | Щ            |              | L |
| $\sqcup$    | 48       | Щ        |    |          | <u> </u> | Щ            | Щ                  | $oxed{\Box}$                        | Щ                  | <u> </u> |     |  | 98       | $\sqcup$  | _ |  | _                                   | <u> </u>       | Щ.                                  | L_           |              | L |
| <u> </u>    | 49       | Щ        |    |          | <u> </u> | L            | Щ                  | Щ                                   | Щ                  |          |     |  | 99       | Щ         | _ |  |                                     | oxdot          | L_                                  |              | $\vdash$     | L |
| ш           | 50       |          |    | -        | L.       |              |                    | L                                   | Ш                  |          | ,   |  | 100      | L         |   |  |                                     | L              | L                                   | Щ            | Щ            | L |

|                        |          | Date     |  |          |                                     |           |          |          |          |              |  |
|------------------------|----------|----------|--|----------|-------------------------------------|-----------|----------|----------|----------|--------------|--|
| Cla                    | im       | <u> </u> | _  |          | _ (                                 | Date      | ?        | -        |          |              |  |
| Final                  | Original |          |  |          |                                     |           | :        |          |          |              |  |
|                        | 51       |          | $\vdash$   | $\vdash$ |                                     | _         | $\vdash$ | H        | -        |              |  |
|                        | 52       | Г        | $\vdash$   | П        | ऻ                                   | $\vdash$  |          | _        |          | $\vdash$     |  |
|                        | 53       |          | Г  |          |                                     |           |          |          |          |              |  |
|                        | 54       |          |  |          |                                     |           |          |          |          |              |  |
|                        | 55       |          |  |          |                                     |           |          |          |          |              |  |
|                        | 56<br>57 |          | <u> </u>   |          |                                     |           | L        | L        |          | _            |  |
|                        | 57       |          | <u> </u>   | <u> </u> | L                                   | _         | _        | L        |          | _            |  |
| ļ                      | 58       | _        | _  | _        | L                                   | _         | <u> </u> | <u> </u> | <u> </u> | _            |  |
| _                      | 59       | _        | <u> </u>   |          | ļ                                   | _         | ┡        | L        |          | L            |  |
| -                      | 60       | _        | ├  | <u> </u> | ┞                                   |           | ļ        | ├        | <u> </u> | <del> </del> |  |
| _                      | 61<br>62 | $\vdash$ | <u> </u>   | ⊢        | ⊢                                   | ⊢         | ⊢        |          | ⊢        |              |  |
| -                      | 63       | ⊢        | $\vdash$   | ⊢        | ⊢                                   | -         | ⊢        | ⊢        | ⊢        | -            |  |
|                        | 64       | -        | -  | -        | -                                   | _         |          | ⊢        | -        |              |  |
|                        | 65       | $\vdash$ | <del>                                     </del> | -        | ┢                                   | $\vdash$  | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     |  |
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|                        | 67       | $\vdash$ | $\vdash$   | $\vdash$ |                                     | $\vdash$  | _        | -        | ┢        | $\vdash$     |  |
|                        | 68       |          |  |          |                                     |           |          |          |          |              |  |
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|                        | 75       | _        |  | <u> </u> |                                     | <u> </u>  | ļ        | <u> </u> | <u> </u> | <u> </u>     |  |
|                        | 76       | <u> </u> | <u> </u>   | ┞        | <u> </u>                            | _         | _        | _        | <u> </u> | ┞            |  |
|                        | 77       | ⊢        | ├  | ⊩        | ┝                                   | ┝         | ┝        |          | ┡        | ⊢            |  |
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| -                      | 80       | $\vdash$ |  | ⊢        |                                     | ┝╌        | _        | -        | -        | ⊢            |  |
| -                      | 81       |          | -  | H        |                                     | $\vdash$  | -        | -        | ┝        | ├─           |  |
|                        | 82       | $\vdash$ | -  |          |                                     | $\vdash$  |          |          | -        | $\vdash$     |  |
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|                        | 84       | Т        | ┪  | <b>-</b> |                                     | _         | -        | <b>-</b> | <u> </u> | ┢            |  |
|                        | 85       |          |  |          |                                     |           |          |          |          |              |  |
|                        | 86       |          |  |          |                                     |           |          |          |          |              |  |
|                        | 87       |          |  |          |                                     |           |          |          |          |              |  |
|                        | 88       |          |  |          |                                     |           |          |          |          |              |  |
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|                        | 90       | <u>L</u> | <u>L</u>   | L        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $\square$ | _        | <u> </u> | L.,      | L            |  |
|                        | 91       | Щ        | <u> </u>   |          | $oxed{oxed}$                        |           |          | <u> </u> |          | L            |  |
| <u> </u>               | 92       | <u> </u> | <u> </u>   | <u> </u> | _                                   | _         |          | <u> </u> | <u> </u> | <u> </u>     |  |
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| $\vdash$               | 94<br>95 |          | _  | $\vdash$ | $\vdash$                            |           | -        | -        | Н        | <u> </u>     |  |
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| $\vdash \vdash \vdash$ | 99       | H        | $\vdash$   |          | $\vdash$                            | $\vdash$  | <u> </u> | $\vdash$ | $\vdash$ | _            |  |
| $\vdash$               | 100      | $\vdash$ | $\vdash$   | $\vdash$ | Η-                                  | $\vdash$  | -        | $\vdash$ | $\vdash$ | $\vdash$     |  |

|          | ,                               |  | <u> </u> |                                     |          |          |          |          | •          |          |  |  |
|----------|---------------------------------|--|----------|-------------------------------------|----------|----------|----------|----------|------------|----------|--|--|
| Cl       | aim                             | Date   |          |                                     |          |          |          |          |            |          |  |  |
| Final    | Original                        |  |          |                                     |          |          |          |          |            |          |  |  |
|          | 101                             |  |          |                                     |          |          |          |          |            |          |  |  |
|          | 102                             | _  | _        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u> | _        | _        |          | <u> </u>   | Щ        |  |  |
| ļ        | 103                             | _  | -        | -                                   | -        |          | _        | $\vdash$ | -          | _        |  |  |
|          | 105                             | ├  | -        | -                                   | <u> </u> | -        |          | $\vdash$ | -          |          |  |  |
|          | 106                             | <del>                                     </del> | $\vdash$ | ┢                                   | H        | -        | $\vdash$ | $\vdash$ | $\vdash$   |          |  |  |
|          | 107                             |  |          |                                     |          |          |          |          |            |          |  |  |
|          | 108                             |  |          |                                     |          |          |          |          |            |          |  |  |
|          | 109                             | <u> </u>   | <u> </u> | <u> </u>                            | L        | <u> </u> |          | _        | ļ          |          |  |  |
| -        | 110<br>111                      |  | _        | $\vdash$                            |          | <u> </u> | _        | _        | ┝          |          |  |  |
|          | 112                             | ┝  | -        | H                                   | -        | ┢        | -        | -        | -          | H        |  |  |
| <b>—</b> | 113                             | $\vdash$   | Т        | Т                                   | Т        | $\vdash$ | Т        | $\vdash$ | Т          |          |  |  |
|          | 113<br>114                      |  |          |                                     |          |          |          |          |            |          |  |  |
|          | 115                             | L.   | <u> </u> | L_                                  | L        | L_       | L.       |          | <u> </u>   |          |  |  |
|          | 116                             | _  | <u> </u> | L                                   | <u> </u> | <u> </u> | <u> </u> | _        | ┡          |          |  |  |
| -        | 117<br>118                      | -  | H        | ┝                                   |          | -        | ┝        | _        | ┢          | H        |  |  |
| <u> </u> | 119                             | -  | ┝        | ┢                                   | ┢        | -        | ┢        |          | $\vdash$   | H        |  |  |
|          | 120                             | _  |          | Г                                   | Г        | $\vdash$ | -        | _        |            |          |  |  |
|          | 121<br>122<br>123               |  |          |                                     |          |          |          |          |            |          |  |  |
|          | 122                             |  |          | L                                   |          | _        |          | _        | <u>L</u> . |          |  |  |
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|          | 124<br>125                      | -  | ┝        | _                                   | -        | ├        | -        |          | ├          | Н        |  |  |
|          | 126                             | -  | ┢        | _                                   | $\vdash$ | $\vdash$ | $\vdash$ | _        | ┝          |          |  |  |
|          | 127                             |  |          |                                     |          |          |          |          |            |          |  |  |
|          | 128                             |  |          |                                     |          |          |          |          |            |          |  |  |
|          | 126<br>127<br>128<br>129<br>130 |  | <u> </u> |                                     | L.       |          | ļ        | _        | -          | Ш        |  |  |
|          | 130                             | <u> </u>   |          |                                     | _        |          | _        |          | <u> </u>   | Н        |  |  |
|          | 132                             | -  | -        |                                     | -        | -        | -        | _        | H          | H        |  |  |
|          | 133                             | ┢╌   | -        | _                                   | _        | _        | ┢        |          | $\vdash$   | Н        |  |  |
|          | 134                             |  |          |                                     |          |          |          |          |            |          |  |  |
|          | 135                             |  |          |                                     |          |          |          |          |            |          |  |  |
|          | 136<br>137                      | _  | _        | _                                   | L        | _        |          | _        | L          |          |  |  |
|          | 137                             | -  |          | -                                   |          | -        | -        |          | H          | Н        |  |  |
|          | 139                             |  | -        | -                                   |          | _        | ┢        |          | -          | $\vdash$ |  |  |
|          | 140                             |  |          |                                     |          | -        |          | _        |            |          |  |  |
|          | 141                             |  |          |                                     |          |          |          |          |            |          |  |  |
|          | 142                             |  |          |                                     |          | L        |          |          | L          | Ц        |  |  |
|          | 143                             |  |          |                                     |          |          |          |          | <u> </u>   | -        |  |  |
| <u> </u> | 144<br>145                      | $\vdash$   | $\vdash$ | $\vdash$                            | -        | H        | <u> </u> | $\vdash$ | $\vdash$   | Н        |  |  |
| _        | 146                             | H  |          | -                                   | $\vdash$ | _        | $\vdash$ | _        | H          | Н        |  |  |
|          | 147                             |  |          |                                     |          |          |          |          | Г          | H        |  |  |
|          | 148                             |  |          |                                     |          |          |          |          |            |          |  |  |
|          | 149                             |  |          |                                     |          |          |          |          |            | Ц        |  |  |
| L        | 150                             | L  |          | با                                  |          |          | L        |          |            | Ш        |  |  |